INTERNATIONAL SEARCH REPORT

Internati Application No
PCT/IB2004/004314

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F21V5/04 G09F19/18 G02B3/06 F21V7/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) F21V G02B G09F IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 4 847 734 A (KATOH ET AL) 1,2,4-611 July 1989 (1989-07-11) figure 2 column 3, line 1 - line 18 7,8 EP 0 071 052 A (MORI, KEI) 1,4,5 9 February 1983 (1983-02-09) page 5, line 35 - page 6, line 13 figures 4,5 7,8 US 6 536 921 B1 (SIMON JEROME H) 25 March 2003 (2003-03-25) paragraph '0175! figure 50 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention "E" earlier document but published on or after the international *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such documents, such combination being obvious to a person skilled other means in the art. "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 23 March 2005 07/04/2005 Name and mailing address of the ISA **Authorized officer** European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Prévot, E Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

Internation Application No
PCT/IB2004/004314

C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ	US 2002/181234 A1 (KAWAHARA JAMIE) 5 December 2002 (2002-12-05) figures 6,8,9	8
Α	US 6 116 757 A (SIMON ET AL) 12 September 2000 (2000-09-12) claim 1 figure 7	1
A	US 6 481 130 B1 (WU CHEN-HO) 19 November 2002 (2002-11-19) figure 9	

IN LEKNATIONAL SEARCH REPORT

Information on patent family members

Internation Application No
PCT/IB2004/004314

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 4847734	A	11-07-1989	JP KR	1037158 A 9203162 B1	07-02-1989 20-04-1992
EP 0071052	A	09-02-1983	JP JP AU AU DE EP HK MY NZ SG	1334137 C 58021205 A 60058443 B 534080 B2 8648282 A 3268655 D1 0071052 A2 21887 A 34987 A 201160 A 88986 G	28-08-1986 08-02-1983 20-12-1985 05-01-1984 17-03-1983 06-03-1986 09-02-1983 20-03-1987 31-12-1987 12-07-1985 13-11-1987
US 6536921	B1	25-03-2003	US WO	5897201 A 9913266 A1	27-04-1999 18-03-1999
US 2002181234	A1	05-12-2002	NONE		
US 6116757	A	12-09-2000	US	5863115 A	26-01-1999
US 6481130	B1	19-11-2002	NONE		